

CLAIMS

1. An aggregate storing and classifying mechanism for production of asphalt in plants, comprising a body (2), a screen (3) arranged to the upper side of the body; plurality of
5 foot means (1) for holding the body (2), plurality of discharge mouths (4) and discharge covers (8) for discharging the aggregate material from the body (2) and feeding the aggregate material to conveyors placed under the body (2) through plurality of discharging axis, a paddle box (12), and the aggregate storing and classifying mechanism being in association with an elevator to convey the aggregate material
10 provided by a secondary crusher to the screen (3), characterized in that, in a closed-form structure, the body (2) comprises plurality of sections (6) arranged in the body (2) for storing aggregate material comprising different gradation levels; corridor means (7) and channel means (15) arranged in the body (2) for distributing the aggregate in the body (2) as homogenously.
- 15 2. A closed-form aggregate storing and classifying mechanism according to any one of the preceding claims, characterized in that the elevator is in closed form as the aggregate storing and classifying mechanism.
- 20 3. A closed-form aggregate storing and classifying mechanism according to claim 2, characterized in that the elevator is a vertical elevator and being in association with a filter system for sucking dust volume of the elevator.
- 25 4. A closed-form aggregate storing and classifying mechanism according to any one of the preceding claims, characterized in that the secondary crusher is covered by the paddle box (12).
- 30 5. A closed-form aggregate storing and classifying mechanism according to any one of the preceding claims, characterized in that the screen (3) is a vibrating screen and the upper side thereof is covered.
- 35 6. A closed-form aggregate storing and classifying mechanism according to any one of the preceding claims, characterized in that pistons (11) operable by mechanically or electronically are provided for opening and closing the discharge covers (8).

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7. A closed-form aggregate storing and classifying mechanism according to any one of the preceding claims, characterized in that a paddle box (12) and dust suction pipes (13) are provided for sucking the dust originated in the screen (3), in the crusher and in the body.

8. A closed-form aggregate storing and classifying mechanism according to claim 1, characterized in that the corridor means (7) and the channel means (15) are provided horizontally, so that said plurality of sections (6) are united to form a single storing section.

9. A method for storing and classifying of aggregate according to any one of the preceding claims, comprising the following steps of:

crushing of ballast material in the crusher which is covered with the paddle box (12) and connected to a filter system for the absorption of dust,

controlled crushing through which aggregate flow rate, flow speed, gradations and the amount of each gradation are managed with modifications made on the revolution speed of the secondary crusher,

transferring of aggregate material to the closed vertical elevator which is connected to filter system for the absorption of dust,

transferring of aggregates in a vertical position with the vertical elevator to screens (3) of the mechanism,

sieving of aggregate material with screens (3) which are covered with the paddle box and connected to a filter system for the absorption of dust,

directing the flow of aggregates towards inside the mechanism using directing parts and delivering aggregates into storing sections with respect to their gradations,

storing of more than one size (gradation) of aggregates in a completely closed system,

storing of more than one size (gradation) of aggregates by changing (either increasing or decreasing) their quantity when it is required,

absorbing and storing of dust particles which form after secondary crushing without causing them to spread to the environment,

direct discharging or discharging through feeding system (mule system)
of deposited materials from discharge mouths (4) either manually or by
automatic control,

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placing of horizontal conveyor bands which can make aggregate transfer
in more than one axis under the mechanism,

placing plurality of discharge mouths (4) along with the same axis for
enabling feeding of two separate asphalt plants situated at two different
directions.

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